

Last search updated 5/26/04 1:45:12 PM

L Number	Hits	Search Text	DB	Time stamp
2	657	<b>221/211.ccls.</b>	<b>USPAT;</b> <b>US-PGPUB;</b> <b>EPO; JPO;</b> <b>DERWENT;</b> <b>IBM_TDB</b>	<b>2004/05/26</b> <b>13:41</b>
3	127	<b>221/81.ccls.</b>	<b>USPAT;</b> <b>US-PGPUB;</b> <b>EPO; JPO;</b> <b>DERWENT;</b> <b>IBM_TDB</b>	<b>2004/05/26</b> <b>13:42</b>
4	1	<b>221/81.ccls. and component adj supply</b>	<b>USPAT;</b> <b>US-PGPUB;</b> <b>EPO; JPO;</b> <b>DERWENT;</b> <b>IBM_TDB</b>	<b>2004/05/26</b> <b>13:42</b>
5	1	<b>221/81.ccls. and (221/81.ccls. and component adj supply)</b>	<b>USPAT;</b> <b>US-PGPUB;</b> <b>EPO; JPO;</b> <b>DERWENT;</b> <b>IBM_TDB</b>	<b>2004/05/26</b> <b>13:42</b>
	0	<b>414/411.ccls. and (221/81.ccls. and component adj supply)</b>	<b>USPAT;</b> <b>US-PGPUB;</b> <b>EPO; JPO;</b> <b>DERWENT;</b> <b>IBM_TDB</b>	<b>2004/05/26</b> <b>13:42</b>
1	419	<b>414/411.ccls.</b>	<b>USPAT;</b> <b>US-PGPUB;</b> <b>EPO; JPO;</b> <b>DERWENT;</b> <b>IBM_TDB</b>	<b>2004/05/26</b> <b>13:43</b>
7	9	<b>414/411.ccls. and component adj feeder</b>	<b>USPAT;</b> <b>US-PGPUB;</b> <b>EPO; JPO;</b> <b>DERWENT;</b> <b>IBM_TDB</b>	<b>2004/05/26</b> <b>13:43</b>
-	5	<b>component adj feeder and adjusting near device and actuator and spring</b>	<b>USPAT;</b> <b>US-PGPUB;</b> <b>EPO; JPO;</b> <b>DERWENT;</b> <b>IBM_TDB</b>	<b>2004/05/26</b> <b>13:41</b>
-	8	<b>component adj feeder and adjusting near device and actuator</b>	<b>USPAT;</b> <b>US-PGPUB;</b> <b>EPO; JPO;</b> <b>DERWENT;</b> <b>IBM_TDB</b>	<b>2004/05/26</b> <b>13:16</b>
-	2	<b>5020959.pn.</b>	<b>USPAT;</b> <b>US-PGPUB;</b> <b>EPO; JPO;</b> <b>DERWENT;</b> <b>IBM_TDB</b>	<b>2004/05/26</b> <b>13:16</b>

-	<b>5</b>	<b>component adj feeder and adjusting and (414/416.05, 221/211 , 221/25 , 221/81 , 29/759).ccls.</b>	<b>USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB</b>	<b>2004/05/26 13:20</b>
-	<b>7</b>	<b>component adj feeder and adjusting and (414/416.05, 221/211 , 221/25 , 221/81 , 29/759, 156/584, 156/344 , 221/25 , 221/72 , 221/87 , 226/139 , 226/8 414/411).ccls.</b>	<b>USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB</b>	<b>2004/05/26 13:23</b>
-	<b>3</b>	<b>adjustable near member and supply adj module</b>	<b>USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB</b>	<b>2004/05/26 13:26</b>
-	<b>6</b>	<b>locking adj element and supply adj module</b>	<b>USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB</b>	<b>2004/05/26 13:28</b>
-	<b>12</b>	<b>LIEBEKE near THOMAS .inv.</b>	<b>USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB</b>	<b>2004/05/26 13:28</b>

	<b>Title</b>	<b>Current OR</b>
<b>1</b>	<b>Auto-loading component tape feeder</b>	<b>414/411</b>
<b>2</b>	<b>Automatic feeder for strip-supported contacts</b>	<b>414/411</b>
<b>3</b>	<b>Tape feeder with improved cover tape disposition path and drive</b>	<b>156/344</b>
<b>4</b>	<b>Multiple index tape feeder and method</b>	<b>414/411</b>
<b>5</b>	<b>Electronic component feeder</b>	<b>414/411</b>
<b>6</b>	<b>Electric-component feeder</b>	<b>156/584</b>
<b>7</b>	<b>Electronic component feeder</b>	<b>156/584</b>
<b>8</b>	<b>Electronic component feeder</b>	<b>156/584</b>
<b>9</b>	<b>COMPONENT FEEDER</b>	

	<b>Current XRef</b>
<b>1</b>	<b>414/416.1</b>
<b>2</b>	
<b>3</b>	<b>156/584; 221/25; 221/72; 221/87; 414/411</b>
<b>4</b>	<b>414/403; 414/416.05</b>
<b>5</b>	<b>156/584</b>
<b>6</b>	<b>156/344; 221/25; 221/87; 414/411; 414/416.01</b>
<b>7</b>	<b>156/344; 221/25; 221/79; 221/87; 226/8; 414/411; 414/416.01</b>
<b>8</b>	<b>156/344; 221/25; 221/72; 221/87; 226/139; 226/8; 414/411</b>
<b>9</b>	<b>414/411</b>

	<b>Title</b>	<b>Current OR</b>
<b>1</b>	<b>Device and method for feeding taped electrical components</b>	<b>226/32</b>
<b>2</b>	<b>Feed device for conveyor belts loaded with pick-and-place components</b>	<b>198/832</b>
<b>3</b>	<b>Component tape transport wheel and transport system, and method of operating a component tape transport system</b>	<b>226/76</b>
<b>4</b>	<b>Method and device for determining the pick-up position of electrical components in a component in a components placement device</b>	<b>29/833</b>
<b>5</b>	<b>Feeding devices for taped electric components</b>	<b>226/188</b>
<b>6</b>	<b>Placement element release device for multiple placement element belts and release system for placement elements</b>	<b>414/403</b>
<b>7</b>	<b>Precision bearing for feed modules of automatic placement machines</b>	<b>248/694</b>
<b>8</b>	<b>DEVICE AND METHOD FOR FEEDING TAPED ELECTRICAL COMPONENTS</b>	
<b>9</b>	<b>FEEDER FOR ELECTRIC COMPOUNDS WHICH ARE TAKEN UP IN A BELT</b>	
<b>10</b>	<b>FEEDING DEVICES FOR TAPED ELECTRIC COMPONENTS</b>	
<b>11</b>	<b>INSERTION ARRANGEMENT AND USE THEREOF</b>	
<b>12</b>	<b>SUPPLY MODULE FOR FEEDING ELECTRICAL COMPONENTS TO AN AUTOMATIC PLACEMENT DEVICE</b>	

	<b>Current XRef</b>
<b>1</b>	<b>226/139</b>
<b>2</b>	
<b>3</b>	<b>226/188</b>
<b>4</b>	<b>29/740; 29/832</b>
<b>5</b>	<b>226/76</b>
<b>6</b>	<b>414/416.03</b>
<b>7</b>	
<b>8</b>	
<b>9</b>	
<b>10</b>	
<b>11</b>	
<b>12</b>	